| Examiner-Initiated Interview Summary | Application No. | Applicant(s) | |
|---|---|---|---|
| | 10/629,065 | COLE ET AL. | |
| | Examiner | Art Unit | |
| | Andrew T. Sever | 2851 | |

**All Participants:**

**Status of Application:** Allowed

(1) *Andrew T. Sever*.

(3) _____.

(2) *Leland Wiesner*.

(4) _____.

**Date of Interview:** *14 February 2006*

**Time:** _____

**Type of Interview:**

☒ Telephonic
☐ Video Conference
☐ Personal (Copy given to: ☐ Applicant ☐ Applicant's representative)

Exhibit Shown or Demonstrated: ☐ Yes ☐ No
If Yes, provide a brief description:

**Part I.**

Rejection(s) discussed:
*Rejection of claims 17 and 19-28*

Claims discussed:
*1, 17, and 19-28*

Prior art documents discussed:
*N/A*

**Part II.**

SUBSTANCE OF INTERVIEW DESCRIBING THE GENERAL NATURE OF WHAT WAS DISCUSSED:
*See Continuation Sheet*

**Part III.**

☒ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview directly resulted in the allowance of the application. The examiner will provide a written summary of the substance of the interview in the Notice of Allowability.

☐ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview did not result in resolution of all issues. A brief summary by the examiner appears in Part II above.

(Examiner/SPE Signature)

(Applicant/Applicant's Representative Signature – if appropriate)

Continuation of Substance of Interview including description of the general nature of what was discussed: It was noted that the amendment of 10/5/2005 did not overcome their rejections of claims 17 and 19-28 as it did not have all of the allowable limitations of claim 1. Applicant's representative faxed a proposed amendment attached hereto that will be entered by examiner's amendment that will make claims 17 and 19-28 allowable for the reasons that claims 1-9, 11-16, and 29-32 were previously indicated allowable. .

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| | |
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| To: Andrew T. Sever | Fax Number: 15712732128 |
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| | |
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| From : Leland Wiesner | Fax Number : 6508531114 |
| Company : na | Pages including cover page: 13 |

Subject : Modified suggested claim langugage for Examiner Amendment

## Comments:

Examiner Sever;
Please find the modified suggested language to be included with the claims as discussed.
Sincerely,
Leland

Attorney's Docket No.: 200208981-1
Alt. Ref.: 00116-001100000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|---|---|---|---|
| Applicant | : James R. Cole | Art Unit | : 2851 |
| App. No. | : 200208981-1 | Examiner | : Andrew T. Sever |
| Issue Date | : n/a | | |
| Serial No. | : 10/629,065 | | |
| Filed | : 07/28/2003 | | |
| Title | : Projector With Conditionally-Delayed Start For Lamp Cooling | | |

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

**VIA FACSIMILE**

SUGGESTED CLAIMS FOR EXAMINER'S AMENDMENT
AFTER ADVISORY

Dear Examiner Sever:

Per our conversation February 14, 2006 and in view of the Advisory Action of November 18, 2005, please consider the below claim language in drafting your Examiner's Amendment:

Suggested changes to Claims 17, 18 and 19

17. (Currently Amended) A light source control apparatus for a digital projector, comprising:

a light source for the projection of images;

a temperature sensor for measuring the temperature of the light source and signaling when the temperature of the light source is at or below a predetermined temperature threshold;

a cooling device that lowers [for lowering] the temperature of the light source until the signal from the temperature sensor indicates the temperature is at or below the predetermined [a temperature threshold before the light source is activated];

an on/off control [ to activate request] for requesting an activation of the light source and [request] requesting the light source to be turned off; and

a control mechanism that receives the request to activate the light source and turns on the cooling device and keeps the light source off when the temperature of the light source is not at or below the predetermined threshold then activates the light source when the signaling from the temperature sensor indicates the temperature is at or below the predetermined temperature threshold. [for processing temperature data and determining light source control and cooling device control, wherein the light source is activated when below a temperature threshold].

18. (cancelled)

19. (Currently Amended)The apparatus of claim 17 wherein requesting to turn off the light source results in [the turning off the light-source in response to the request received and]

turning off [[a]] the cooling device in response to the request and within a predetermined time frame without consideration of the light-source temperature.

Complete listing of the claims including changes to 17, 18 and 19:

1. (Previously presented)A method of controlling a digital projector, comprising:

receiving a request to turn on the digital projector;

receiving temperature data associated with a light source from a temperature sensor;

comparing the temperature data to a predetermined threshold;

turning on a cooling device and keeping the light source off if the temperature data is above the predetermined threshold and if a turn-on request has been received; and

turning on the light source if the temperature data is at or below the predetermined threshold and if a turn-on request has been received.

2. (original)The method of claim 1 wherein the digital projector is selected from a set of projectors including: an overhead projector, a video projector, a projection television, and a cinema projector.

3. (original)The method of claim 1 wherein the light-source is selected from a set of lamps including xenon lamp and a high-pressure mercury vapor lamp.

4. (original)The method of claim 1 wherein the predetermined threshold is substantially the boiling point of mercury.

5. (original)The method of claim 1 wherein the turn-on request received is from an on/off control mounted on the digital projector.

6. (original)The method of claim 1 wherein the turn-on request received from a remote control.

7. (original)The method of claim 1 wherein the received temperature data comprises data taken in proximity to the light source.

8. (original)The method of claim 1 wherein the received temperature data comprises data taken from the internal environment of the digital projector.

9. (Previously presented) A method of controlling a digital projector, comprising:

turning on a cooling device and keeping the light source off if the temperature data is above a predetermined threshold and if a turn-on request has been received;

turning on the light source if the temperature data is at or below the predetermined threshold and if a turn-on request has been received;

displaying images with the digital projector using a light-source;

receiving a request to turn off the digital projector;

turning off the light-source in response to the request received; and

turning off a cooling device in response to the request and within a substantially immediate time frame without consideration of the light-source temperature.

10. (cancelled)

**11.** (original)The method of claim **9** wherein the digital projector is selected from a set of projectors including: an overhead projector, a video projector, a projection television, and a cinema projector.

**12.** (original)The method of claim **9** further comprising:

cooling the light-source passively upon receiving the turn-off request.

**13.** (original)The method of claim **9** wherein the light-source is a high-pressure mercury vapor lamp.

**14.** (original)The method of claim **9** wherein the turn-off request received is from an on/off control mounted on the digital projector.

**15.** (original)The method of claim **9** wherein the turn-off request received from a remote control.

**16.** (original)The method of claim **9** wherein the cooling device is a fan.

**17.** (Currently Amended) A light source control apparatus for a digital projector, comprising:

a light source for the projection of images;

a temperature sensor for measuring the temperature of the light source and signaling when the temperature of the light source is at or below a predetermined temperature threshold;

a cooling device that lowers [for lowering] the temperature of the light source until the signal from the temperature sensor indicates the temperature is at or below the predetermined [a temperature threshold before the light source is activated];

an on/off control [ to activate request] for requesting an activation of the light source and [request] requesting the light source to be turned off; and

a control mechanism that receives the request to activate the light source and turns on the cooling device and keeps the light source off when the temperature of the light source is not at or below the predetermined threshold then activates the light source when the signaling from the temperature sensor indicates the temperature is at or below the predetermined temperature threshold. [for processing temperature data and determining light source control and cooling device control, wherein the light source is activated when below a temperature threshold].

**18.** (cancelled)

**19.** (Currently Amended)The apparatus of claim **17** wherein requesting to turn off the light source results in [the turning off the light-source in response to the request received and]

turning off [[a]] the cooling device in response to the request and within a predetermined time frame without consideration of the light-source temperature.

**20.** (original)The apparatus of claim **17** wherein a light source comprises a high-pressure mercury vapor lamp.

**21.** (original)The apparatus of claim **17** wherein a temperature sensor comprises a resistive sensor.

**22.** (original)The apparatus of claim **17** wherein a temperature sensor comprises a silicon PN-junction sensor.

**23.** (original)The apparatus of claim **17** wherein a temperature sensor is mounted in proximity to the light source.

**24.** (original)The apparatus of claim **17** wherein a temperature sensor is mounted within the body of the digital projector.

**25.** (original)The apparatus of claim **17** wherein a cooling device comprises a fan.

**26.** (original)The apparatus of claim **17** wherein a on/off control comprises a switch mounted on the digital projector.

**27.** (original)The apparatus of claim **17** wherein an on/off control comprises a remote control.

**28.** (Previously presented) The apparatus of claim **17** wherein the control mechanism further comprises a computer system integrated into the digital projector having a central processing unit, random access memory, mass storage, and access to an external network.

**29.** (Previously presented)An apparatus for controlling a digital projector, comprising:

means for receiving a request to turn on the digital projector;

means for receiving temperature data associated with a light source from a temperature sensor;

means for comparing the temperature data to a predetermined threshold;

means for turning on a cooling device and keeping the light source off if the temperature data is above the predetermined threshold and if a turn-on request has been received; and

means for turning on the light source if the temperature data is at or below the predetermined threshold and if a turn-on request has been received.

30. (Previously presented) An apparatus for controlling a digital projector, comprising:

means for turning on a cooling device and keeping the light source off if the temperature data is above the predetermined threshold and if a turn-on request has been received;

means for turning on the light source if the temperature data is at or below the predetermined threshold and if a turn-on request has been received;

means for displaying images with the digital projector using a light-source;

means for receiving a request to turn off the digital projector;

means for turning off the light-source in response to the request received; and

means for turning off a cooling device in response to the request and within a substantially immediate time frame without consideration of the light-source temperature.

**31.** (Previously presented)A computer program product for controlling a digital projector, tangibly stored on a computer-readable medium, comprising instructions operable to cause a programmable processor to:

receive a request to turn on the digital projector;

receive temperature data associated with a light source from a temperature sensor;

compare the temperature data to a predetermined threshold;

turn on a cooling device and keeping the light source off if the temperature data is above the predetermined threshold and if a turn-on request has been received; and

turn on the light source if the temperature data is at or below the predetermined threshold and if a turn-on request has been received.

**32.** (Previously presented) A computer program product for controlling a digital projector, tangibly stored on a computer-readable medium, comprising instructions operable to cause a programmable processor to:

turn on a cooling device and keeping the light source off if the temperature data is above the predetermined threshold and if a turn-on request has been received;

turn on the light source if the temperature data is at or below the predetermined threshold and if a turn-on request has been received;

display images with the digital projector using a light-source;

receive a request to turn off the digital projector;

turn off the light-source in response to the request received; and

turn off a cooling device in response to the request and within a substantially immediate time frame without consideration of the light-source temperature.

Applicant : James R. Cole et al.
Patent No. : n/a
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Serial No. : 10/629,065
Filed : 07/28/2003
Page : 9

Attorney's Docket No.: 200208981-1
Alt. Ref.: 00116-001100000

## REMARKS

Applicants wish to thank the Examiner for the allowance of claims 1-9, 11-16 and 29-32 and conditional allowance of claims 17 and 19-28. To further clarify aspects of the invention and assist the Examiner in preparing an Examiner's amendment, Applicants have suggested changing claims 17 and 19 and canceling claim 18. Even though they are independently patentable, claims 19-28 also remain patentable by their dependency on independent claim 17. Independent claims 29 and 30 are at least patentable for some or all of the reasons provided with respect to claim 1 and claim 17.

If the Examiner would not mind, please call (650) 853-1113 x 200 and leave a confirmation message that you have received this FAX to your private number at (571) 273-2128. In the event there remain unresolved issues, please also contact me, Leland Wiesner, Applicants' Attorney at the same number so that such issues may be resolved as expeditiously as possible. We look forward to receiving your suggested changes shortly.

Respectfully Submitted,

02 14 2006
Date

Leland Wiesner
Attorney/Agent for Applicant(s)
Reg. No. 39424

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